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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/828,772	04/21/2004	Ryoichi Sato	1103-04	5229	
35811 75	35811 7590 06/29/2006			EXAMINER	
IP GROUP OF DLA PIPER RUDNICK GRAY CARY US LLP 1650 MARKET ST			WOODWARD, ANA LUCRECIA		
SUITE 4900			ART UNIT	PAPER NUMBER	
PHILADELPH	IA, PA 19103		1711		
		DATE MAIL ED: 06/29/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

	<del> </del>	A 10 A					
		Application No.	Applicant(s)				
		10/828,772	SATO ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Ana L. Woodward	1711				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	/	- 	12 500	. /			
2a) <u> </u>	Responsive to communication(s) filed on	action is non-final. ace except for formal matters, pro	secution as to the				
Dispositi	on of Claims						
5) 6) <b>5</b> 7) 8)	Claim(s) / / / is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) / / / is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or are subject.	vn from consideration.					
_	on Papers						
9) The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	inder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice (3) Notice (1) Information	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	)-152)			

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is unclear as to whether "pulverized pieces" is characterizing both the prefoamed polyimide resin as well as the heat resistant binder.

In claim 1, the metes and bounds of the "heat resistant binder" are indeterminate in scope.

As presently recited, no distinction can be seen between said component and the antecedently recited polyimide resin.

# Claim Rejections - 35 USC § 102/103

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, 7-13 and 15 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over U.S. 4,980,102 (Hill).

Hill disclose the manufacture of foamed polyimide shaped articles comprising the steps of mixing a prefoamed polyimide foam that has been shredded into fine flakes with polyimide foam precursor followed by placing the mixtures in a mold and curing by heating.

In the examples, polyimide foam flakes (Skybond, Solimide) are mixed with polyimide precursor powder and cured by heating. The final densities of the exemplified foam products are 1.2 pounds per cubic feet (0.19 g/cm<sup>3</sup>).

It is maintained that the disclosure of the reference meets the requirements of the present claims in terms of the types of materials added. As presently recited, applicants' pulverized prefoamed polyimide reads on the fine flakes of polyimide disclosed by the reference and the heat resistant binder reads on the polyimide precursor powder of the reference. In the alternative, the presently claimed pulverized pre-foamed polyimide reads on the reference's polyimide precursor powder and the heat resistant binder reads on the reference's fine flakes of polyimide polyimide. The onus is shifted to applicants to establish that the product of the present claims is not the same as or obvious from that set forth by the reference.

# Claim Rejections - 35 USC § 103

5. Claims 2, 4-6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 4,980,102 (Hill) described hereinabove.

The disclosure of Hill is generic as regards the type of polyimide materials employed. Accordingly, it would have been obvious to one having ordinary skill in the art to have employed any conventional polyimide foam material with the reasonable expectation of success. Absent evidence of unusual or unexpected results for the particular claimed materials, no patentability can be seen in the presently claimed subject matter.

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#### **Conclusion**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana L. Woodward whose telephone number is (571) 272-1082. The examiner can normally be reached on Monday-Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) of ·2**/1**2/-1000.

Primary Examiner

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